

Notice of Allowability**Application No.**

10/734,484

Examiner

JOSHUA JOO

Applicant(s)

CHANG, WILLIAM HO

Art Unit

2445

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/16/10.
2. ☒ The allowed claim(s) is/are 1,3,4,6-16,19,21-23,40,41,43-51,53-55 and 57-63.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 5/27/10
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 10/20/10.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Joshua Joo/
Examiner, Art Unit 2445

Detailed Action

This Office action is in response to Applicant's communication filed on August 16, 2010.

Allowable Subject Matter

Claims 1, 3-4, 6-16, 19, 21-23, 40-41, 43-51, 53-55, 57-62, and 63 are allowed.

The following is an examiner's statement of reasons for allowance:

Prior art of record does not teach, suggest, or make obvious the claimed inventions of:

Drawing power to a wireless communication device from a first computing device for operating the wireless communication device upon plug connecting the wireless communication device to an external port of the first computing device; accessing protected data from private memory area of the wireless communication device by a memory controller of the wireless communication device; providing a wireless software running and executing on the first computing device at least the protected data by the wireless communication device, automatically, upon plug connecting the wireless communication device to the external port of the first computing device; activating, automatically, at the first computing device the wireless communication device, by wireless software running on the first computing device, with the protected data received from the wireless communication device that is plug connected to the external port of the first computing device, to provide the first computing device wireless data access over the wireless communication component of the wireless communication device; and enabling the first computing device to share Internet access with a second computing device over a local point to point wireless communication link between the first computing device and the second computing device, by the wireless communication device being plug connected to the external port of the first computing device, the second computing device being a distinct device from the first computing device and the wireless communication device, wherein at least part of the wireless software is stored in a memory component of the wireless communication device, and the wireless software is installed and executed automatically upon connection of the communication device to the external port of the first computing device.

Plug connecting a wireless communication device to an external port of a first computing device; drawing power to the wireless communication device from the first computing device for operating the wireless communication device; accessing protected software component from a private memory area of the wireless communication device by a memory controller of the wireless communication device;

running and executing on the first computing device at least part of a wireless communication software that includes protected software component from the private memory area of the wireless communication device, automatically, upon plug connecting the wireless communication device to the external port of the first computing device by the user; establishing a wireless communication channel, by the wireless communication software executing at the first computing device, between a second computing device and the wireless communication device and over a wireless communication component of the wireless communication device, the second computing device being a distinct device from the wireless communication device and the first computing device; receiving, at the wireless communication device that is plug connected to the first computing device, a data content from the second computing device over the wireless communication channel; and passing, by the wireless communication software, the data content from the wireless communication device to the first computing device for output of the data content at a data output device associated with the first computing device to enable the second computing device to output the data content from the second computing device to the data output device associated with the first computing device over the wireless communication channel, wherein the wireless communication software provides the first computing device with Internet access through the wireless communication device.

Plug connecting a portable communication device to an external port of a first computing device; drawing power to the portable communication device from the first computing device for operating the portable communication device; accessing protected software component from a private memory area of the portable communication device by a memory controller of the portable communication device; installing or running on the first computing device at least part of a phone calling software, automatically, upon connecting the portable communication device to the external port of the first computing device, the phone calling software including the protected software component accessed from the private memory area of the portable communication device by the memory controller; enabling phone calling from the first computing device to a second computing device with the phone calling software running at the first computing device and the portable communication device being plug connected to the external port of the first computing device, the second computing device being a distinct device from the portable communication device and the first computing device; and disconnecting the portable communication device from the external port of the first computing device, and upon disconnecting the portable communication device from the external port of the first computing device, the phone calling software automatically exiting or uninstalling at least part of the phone calling software from the first computing

device, wherein the phone calling software further facilitates Internet access at the first computing device through the portable communication device.

Plug connecting a data communication device with a memory component to an external port of a first computing device; receiving, at the data communication device, at least part of a first device data content from the first computing device; storing at least part of the first device data content, received from the first computing device, in a public memory component of the data communication device; disconnecting the data communication device from the external port of the first computing device; plug connecting the data communication device to an external port of a second computing device, the second computing device being a distinct device from the data communication device and the first computing device; drawing power to the data communication device from the second computing device for powering the data communication device; accessing protected software component from a private memory area of the data communication device by a memory controller of the data communication device, the access of the protected software component for facilitating an autorun operation associated with installing or running on the second computing device at least part of a computer software application; installing or running on the second computing device at least part of the computer software application that includes the protected software component from the private memory area of the memory component of the data communication device, automatically, upon plug connecting the data communication device to the external port of the second computing device; accessing the first device data content stored in the public memory component of the data communication device by the computer software application running on the second computing device; storing a second device data content from the second computing device to the public memory component of the data communication device; synchronizing, by the computer software application running at the second computing device, at least part of the second device data content between the public memory component of the data communication device and the second computing device; and disconnecting the communication device from the external port of the second computing device and the computer software application automatically exiting or uninstalling at least part of the computer software application from the second computing device, wherein the data communication device includes a wireless component and the computer software application includes a wireless application for providing wireless communication to the second computing device over the wireless component.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jon C. Reali, Reg. No. 54,391 on October 20, 2010.

The application is amended as follows:

Claims

1. (Currently Amended) A wireless communication method with a portable wireless communication device that is plug connectable to an external port of a first computing device for wireless communication, the wireless communication device previously being distinct from the first computing device, the wireless communication device having

- an interface for plug connecting to the external port of the first computing device by a user,
- a wireless communication component for wireless communication,
- a memory component including a private memory area that is not accessible or viewable by the user,
- a protected data stored in the private memory area for executing at the first computing device,
- a memory controller having means for managing communication through the interface and means for accessing the private memory area,
- the wireless communication method comprising:
 - drawing power to the wireless communication device from the first computing device for operating the wireless communication device upon plug connecting the wireless communication device to the external port of the first computing device;

accessing the protected data from the private memory area of the wireless communication device by the memory controller of the wireless communication device;

providing a wireless software running and executing on the first computing device at least the protected data by the wireless communication device, automatically, upon plug connecting the wireless communication device to the external port of the first computing device;

activating, automatically, at the first computing device the wireless communication device, by the wireless software running on the first computing device, with the protected data received from the wireless communication device that is plug connected to the external port of the first computing device, to provide the first computing device wireless data access over the wireless communication component of the wireless communication device; and

enabling the first computing device to share Internet access with a second computing device over a local point to point wireless communication link between the first computing device and the second computing device, by the wireless communication device being plug connected to the external port of the first computing device, the second computing device being a distinct device from the first computing device and the wireless communication device,

wherein at least part of the wireless software is stored in the memory component of the wireless communication device, and the wireless software is installed and executed automatically upon connection of the communication device to the external port of the first computing device.

4. (Currently Amended) The method of claim 1 further comprising enabling the first computing device wireless Internet access with the portable wireless ~~data~~ communication device.

18. (Canceled)

19. (Currently Amended) A wireless communication method with a portable wireless communication device plug connectable to an external port of a first computing device with a data output device, the wireless communication device previously being distinct from the first computing device, the wireless communication device having,

an interface for plug connecting to the external port of the first computing device by a user,
a wireless communication component for wireless communication,

a memory component that includes a private memory area that is not accessible or viewable by the user,

a protected software component stored in the private memory area for executing at the first computing device,

a memory controller having means for managing communication through the interface and means for accessing the private memory area,

the wireless communication method comprising:

plug connecting the wireless communication device to the external port of the first computing device;

drawing power to the wireless communication device from the first computing device for operating the wireless communication device;

accessing the protected software component from the private memory area of the wireless communication device by the memory controller of the wireless communication device;

running and executing on the first computing device at least part of a wireless communication software that includes the protected software component from the private memory area of the wireless communication device, automatically, upon plug connecting the wireless communication device to the external port of the first computing device by the user;

establishing a wireless communication channel, by the wireless communication software executing at the first computing device, between a second computing device and the wireless communication device and over the wireless communication component of the wireless communication device, the second computing device being a distinct device from the wireless communication device and the first computing device;

receiving, at the wireless communication device that is plug connected to the first computing device, a data content from the second computing device over the wireless communication channel; and

passing, by the wireless communication software, the data content from the wireless communication device to the first computing device for output of the data content at the data output device associated with the first computing device to enable the second computing device to output the data content from the second computing device to the data output device associated with the first computing device over the wireless communication channel,

wherein the wireless communication software provides the first computing device with Internet access through the wireless communication device.

48. (Currently Amended) A communication method with a portable communication device for enabling phone calling from a computing device, the portable communication device having,

- an interface for plug connecting to an external port of a first computing device by a user,
- a memory component that includes a private memory area that is not accessible or viewable by the user,
- a protected software component stored in the private memory area for executing at the first computing device,
- a memory controller having means for managing communication through the interface, means for accessing the private memory area, and means for facilitating an autorun operation for automatically launching and executing on the first computing device at least a phone calling software,

the communication method comprising:

- plug connecting the portable communication device to the external port of the first computing device;
- drawing power to the portable communication device from the first computing device for operating the portable communication device;
- accessing the protected software component from the private memory area of the portable communication device by the memory controller of the portable communication device;
- installing or running on the first computing device at least part of the phone calling software, automatically, upon connecting the portable communication device to the external port of the first computing device, the phone calling software including the protected software component accessed from the private memory area of the portable communication device by the memory controller;
- enabling phone calling from the first computing device to a second computing device with the phone calling software running at the first computing device and the portable communication device being plug connected to the external port of the first computing device, the second computing device being a distinct device from the portable communication device and the first computing device; and
- disconnecting the portable communication device from the external port of the first computing device, and upon disconnecting the portable communication device from the external port of the first computing device, the phone calling software automatically exiting or uninstalling at least part of the phone calling software from the first computing device,

wherein the phone calling software further facilitates Internet access at the first computing device through the portable communication device.

50. (Currently Amended) The method of claim 48 wherein the portable communication device further comprising a hub with one or more ports for connecting to a device.

51. (Currently Amended) The method of claim 48 wherein the phone calling software is installed and executed automatically upon connection of the portable communication device to the external port of the first computing device.

52. (Canceled)

55. (Currently Amended) A data communication method with a portable data communication device that is plug connectable to an external port of at least a first and a second computing device, the data communication device having

- an interface for plug connecting to an external port of one or more computing devices by a user,
- a memory component that includes a private memory area that is not accessible or viewable by the user,

- a protected software component stored in the private memory area for executing at the one or more computing devices,

- a memory controller having means for managing communication through the interface and means for accessing the private memory area,

- a public memory component that is accessible and viewable by the user,

the data communication method comprising:

- plug connecting the data communication device with a memory component to an external port of a first computing device;

- receiving, at the data communication device, at least part of a first device data content from the first computing device;

- storing at least part of the first device data content, received from the first computing device, in the public memory component of the data communication device;

- disconnecting the data communication device from the external port of the first computing device;

- plug connecting the data communication device to an external port of a second computing device, the second computing device being a distinct device from the data communication device and the first computing device;

drawing power to the data communication device from the second computing device for powering the data communication device;

accessing the protected software component from the private memory area of the data communication device by the memory controller of the data communication device, the access of the protected software component for facilitating an autorun operation associated with installing or running on the second computing device at least part of a computer software application;

installing or running on the second computing device at least part of ~~[[a]]~~ the computer software application that includes the protected software component from the private memory area of the memory component of the data communication device, automatically, upon plug connecting the data communication device to the external port of the second computing device;

accessing the first device data content stored in the public memory component of the data communication device by the computer software application running on the second computing device;

storing a second device data content from the second computing device to the public memory component of the data communication device;

synchronizing, by the computer software application running at the second computing device, at least part of the second device data content between the public memory component of the data communication device and the second computing device; and

disconnecting the communication device from the external port of the second computing device and the computer software application automatically exiting or uninstalling at least part of the computer software application from the second computing device,

wherein the data communication device includes a wireless component and the computer software application includes a wireless application for providing wireless communication to the second computing device over the wireless component.

56. (Canceled)

57. (Currently Amended) The method of claim 55 further comprising automatically deleting any temporary files that includes ~~the~~ data content used by the computer software application residing in the second computing device upon disconnection of the data communication device.

59. (Currently Amended) The method of claim 58, the data communication device further comprising means for the computer software application running at the second computing device to pass at least part

of a data content from the public memory component of the data communication device to the second computing device for rendering at least part of the data content at the data output device associated with the second computing device.

60. (Currently Amended) A portable wireless communication device plug connectable to an external port of a first computing device for wireless communication, the wireless communication device previously being distinct from the first computing device, and the wireless communication device having,

an interface for plug connecting to the external port of the first computing device by a user,

a wireless communication component for wireless communication,

a memory component that includes a private memory area that is not accessible or viewable by the user,

a protected data stored in the private memory area for executing at the first computing device,

a memory controller having means for managing communication through the interface and means for accessing the private memory area,

the wireless communication device comprising,

means for drawing power to the wireless communication device from the first computing device for operating the wireless communication device upon plug connecting the wireless communication device to the external port of the first computing device;

means for accessing the protected data from the private memory area of the wireless communication device by the memory controller of the wireless communication device;

means for providing a wireless software running and executing on the first computing device at least the protected data by the wireless communication device, automatically, upon plug connecting the wireless communication device to the external port of the first computing device;

means for the wireless software running and executing at the first computing device to activate the wireless communication device with the protected data received from the wireless communication device automatically to provide the first computing device wireless data access over the wireless communication component of the wireless communication device, the wireless communication device being plug connected to the external port of the first computing device; and

means for the wireless communication device that is plug connected to the external port of the first computing device to enable the first computing device to share Internet access with a second computing device over a local point to point wireless communication link between the first computing

device and the second computing device, the second computing device being a distinct device from the first computing device and the wireless communication device,

wherein at least part of the wireless software is stored in the memory component of the wireless communication device, and the wireless software is installed and executed automatically upon connection of the communication device to the external port of the first computing device.

61. (Currently Amended) A portable wireless communication device plug connectable to an external port of a first computing device with a data output device, the wireless communication device previously being distinct from the first computing device, the wireless communication device having,

an interface for plug connecting to the external port of the first computing device by a user,

a wireless communication component for wireless communication,

a memory component that includes a private memory area that is not accessible or viewable by the user,

a protected software component stored in the private memory area for executing at the first computing device,

a memory controller having means for managing communication through the interface and means for accessing the private memory area,

the wireless communication device comprising:

means for drawing power to the wireless communication device from the first computing device for operating the wireless communication device;

means for accessing the protected software component from the private memory area of the wireless communication device by the memory controller of the wireless communication device;

means for running and executing on the first computing device at least part of a wireless communication software that includes the protected software component from the private memory area of the wireless communication device, automatically, upon plug connecting the wireless communication device to the external port of the first computing device by the user;

means for establishing a wireless communication channel, by the wireless communication software executing at the first computing device, between a second computing device and the wireless communication device and over the wireless communication component of the wireless communication device, the second computing device being a distinct device from the wireless communication device and the first computing device;

means for receiving, at the wireless communication device that is plug connected to the first computing device, a data content from the second computing device over the wireless communication channel; and

means for the wireless communication software to pass the data content from the wireless communication device to the first computing device for output of the data content at the data output device associated with the first computing device to enable the second computing device to output the data content from the second computing device to the data output device associated with the first computing device over the wireless communication channel,

wherein the wireless communication software provides the first computing device with Internet access through the wireless communication device.

62. (Currently Amended) A portable communication device for enabling phone calling having,
- an interface for plug connecting to an external port of a first computing device by a user,
 - a memory component that includes a private memory area that is not accessible or viewable by the user,
 - a protected software component stored in the private memory area for executing at the first computing device,
 - a memory controller having means for managing communication through the interface, means for accessing the private memory area, and means for facilitating an autorun operation for automatically launching and executing on the first computing device at least a phone calling software,
 - the portable communication device comprising,
 - means for plug connecting the portable communication device to the external port of the first computing device;
 - means for drawing power to the portable communication device from the first computing device for operating the portable communication device;
 - means for accessing the protected software component from the private memory area of the portable communication device by the memory controller of the portable communication device;
 - means for installing or running on the first computing device at least part of the phone calling software, automatically, upon connecting the portable communication device to the external port of the first computing device, the phone calling software including the protected software component accessed from the private memory area of the portable communication device by the memory controller;

means for the phone calling software running at the first computing device to enable phone calling from the first computing device to a second computing device, with the portable communication device plug connected to the external port of the first computing device, the second computing device being a distinct device from the portable communication device and the first computing device; and

means for disconnecting the portable communication device from the external port of the first computing device, and upon disconnecting the portable communication device from the external port of the first computing device, the phone calling software automatically exiting or uninstalling at least part of the phone calling software from the first computing device,

wherein the phone calling software further facilitates Internet access at the first computing device through the portable communication device.

63. (Currently Amended) A portable data communication device with a memory component and plug connectable to an external port of at least a first and a second computing device, the data communication device having

an interface for plug connecting to an external port of one or more computing devices by a user,
a memory component that includes a private memory area that is not accessible or viewable by the user,

a protected software component stored in the private memory area for executing at the one or more computing devices,

a memory controller having means for managing communication through the interface and means for accessing the private memory area,

a public memory component that is accessible and viewable by the user,

the data communication device comprising,

means for plug connecting the data communication device to an external port of a first computing device;

means for receiving, at the data communication device, at least part of a first device data content from the first computing device;

means for storing at least part of the first device data content, received from the first computing device, in the public memory component of the data communication device;

means for disconnecting the data communication device from the external port of the first computing device;

means for plug connecting the data communication device to an external port of a second computing device, the second computing device being a distinct device from the portable communication device and the first computing device;

means for drawing power to the data communication device from the second computing device for powering the data communication device;

means for accessing the protected software component from the private memory area of the data communication device by the memory controller of the data communication device, the access of the protected software component for facilitating an autorun operation associated with installing or running on the second computing device at least part of a computer software application;

means for installing or running on the second computing device at least part of [[a]] the computer software application, that includes the protected software component from the private memory area of the memory component of the data communication device, automatically, upon plug connecting the data communication device to the external port of the second computing device;

means for the computer software application running on the second computing device to access the first device data content stored in the public memory component of the data communication device;

means for storing a second device data content from the second computing device to the public memory component of the data communication device;

means for the computer software application running at the second computing device to synchronize at least part of the second device data content between the public memory component of the data communication device and the second computing device; and

means for disconnecting the data communication device from the external port of the second computing device, and upon disconnecting the data communication device from the external port of the second computing device, the computer software application automatically exiting or uninstalling at least part of the computer software application from the second computing device,

wherein the data communication device includes a wireless component and the computer software application includes a wireless application for providing wireless communication to the second computing device over the wireless component.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua Joo whose telephone number is 571 272-3966. The examiner can normally be reached on Monday to Friday 8AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew T. Caldwell can be reached on 571 272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Joshua Joo/
Examiner, Art Unit 2445